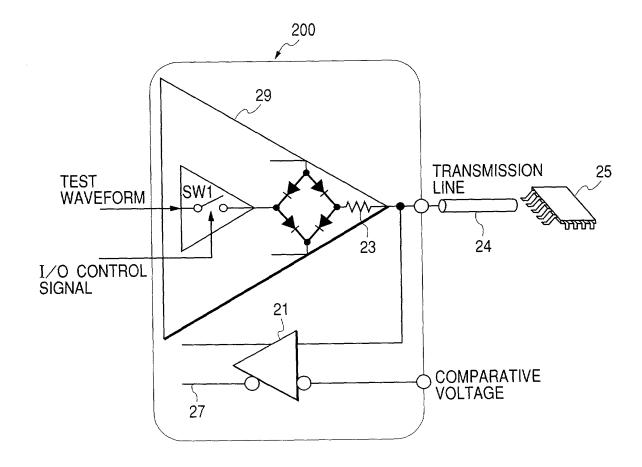
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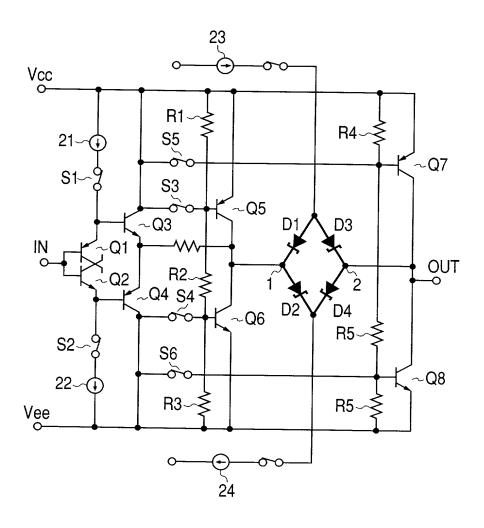
FIG. 1



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FIG. 2



Applicant: Keizo Takechi, et al.

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FIG. 3A

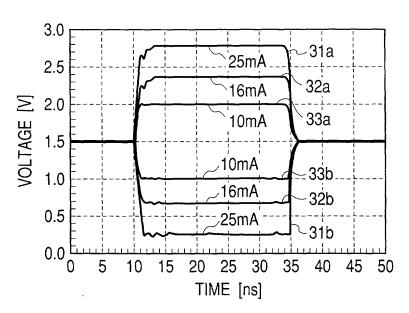
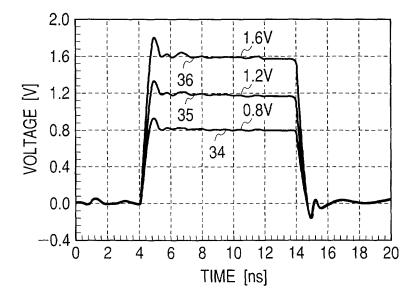


FIG. 3B



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FIG. 4A

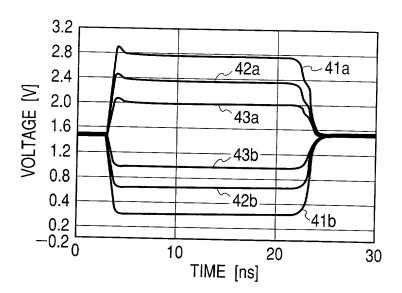
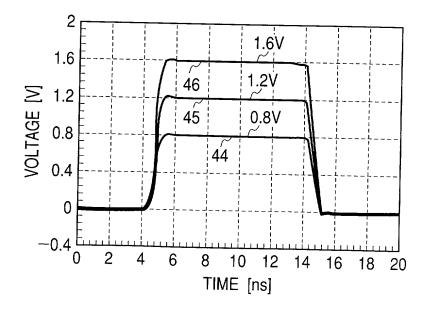


FIG. 4B



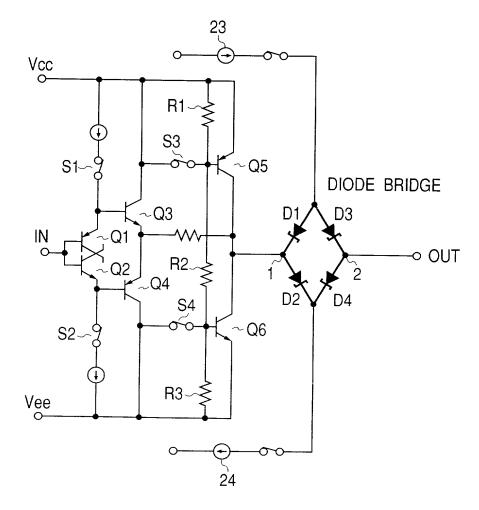
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FIG. 5

| ITEMS | INTEGRAL-TYPE DRIVER | CONVENTIONAL | |
|-------------------------|-------------------------|---|--------------|
| | | DRIVER | DYNAMIC LOAD |
| ELECTRICITY CONSUMPTION | 4.5W | 3.6W 3.5W 7.1W | |
| CHIP AREA [mm²] | 4.0×4.0 =16.0 | 3.7×3.7 3.0×3.0 = 22.69 | |
| MOUNTING AREA [mm²] | 460 | 690 | |

FIG. 6



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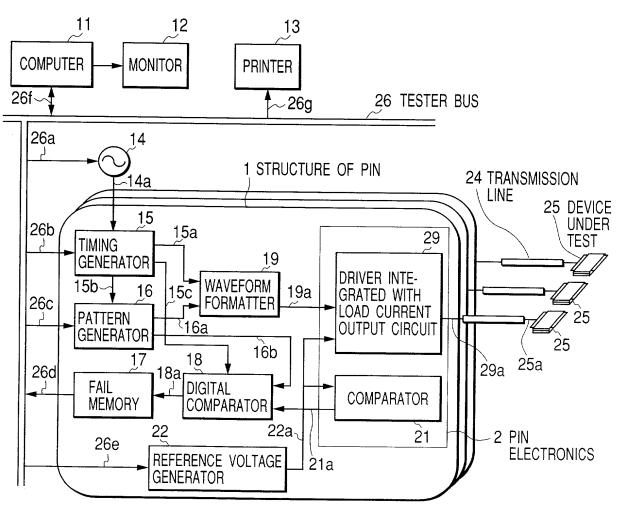
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FIG. 7

| ITEMS | CIRCUIT SYSTEM OF FIG. 2 | CIRCUIT SYSTEM OF FIG. 3 |
|-------------------------|-----------------------------|-----------------------------|
| ELECTRICITY CONSUMPTION | 700mW | 1500mW |
| CHIP AREA [mm²] | 0.7 (CONVENTIONALLY 1.0) | 0.7 (CONVENTIONALLY 1.0) |
| RISING TIME (1.6V) | 200ps | 300ps |

FIG. 8

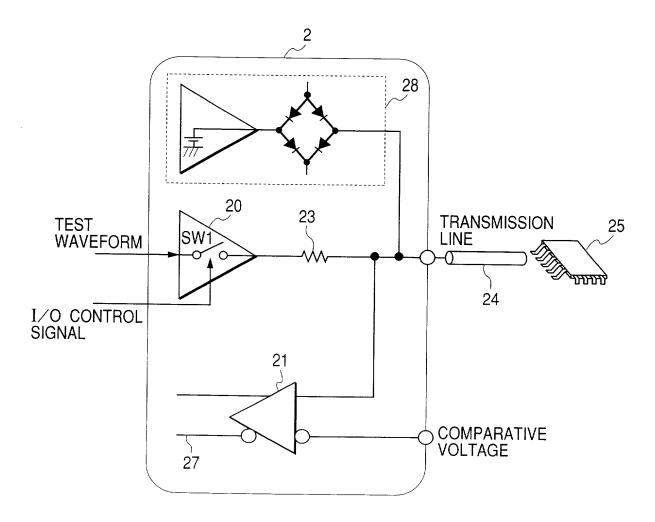


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FIG. 9 PRIOR ART



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FIG. 10 PRIOR ART

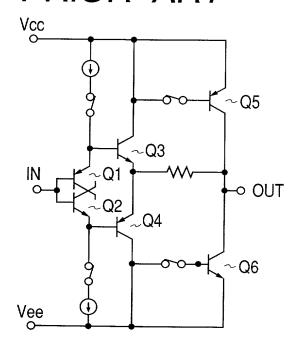


FIG. 11 PRIOR ART

